

11/1

Penultimate Solar Cell

AM1 Efficiency

Theoretical: 40%

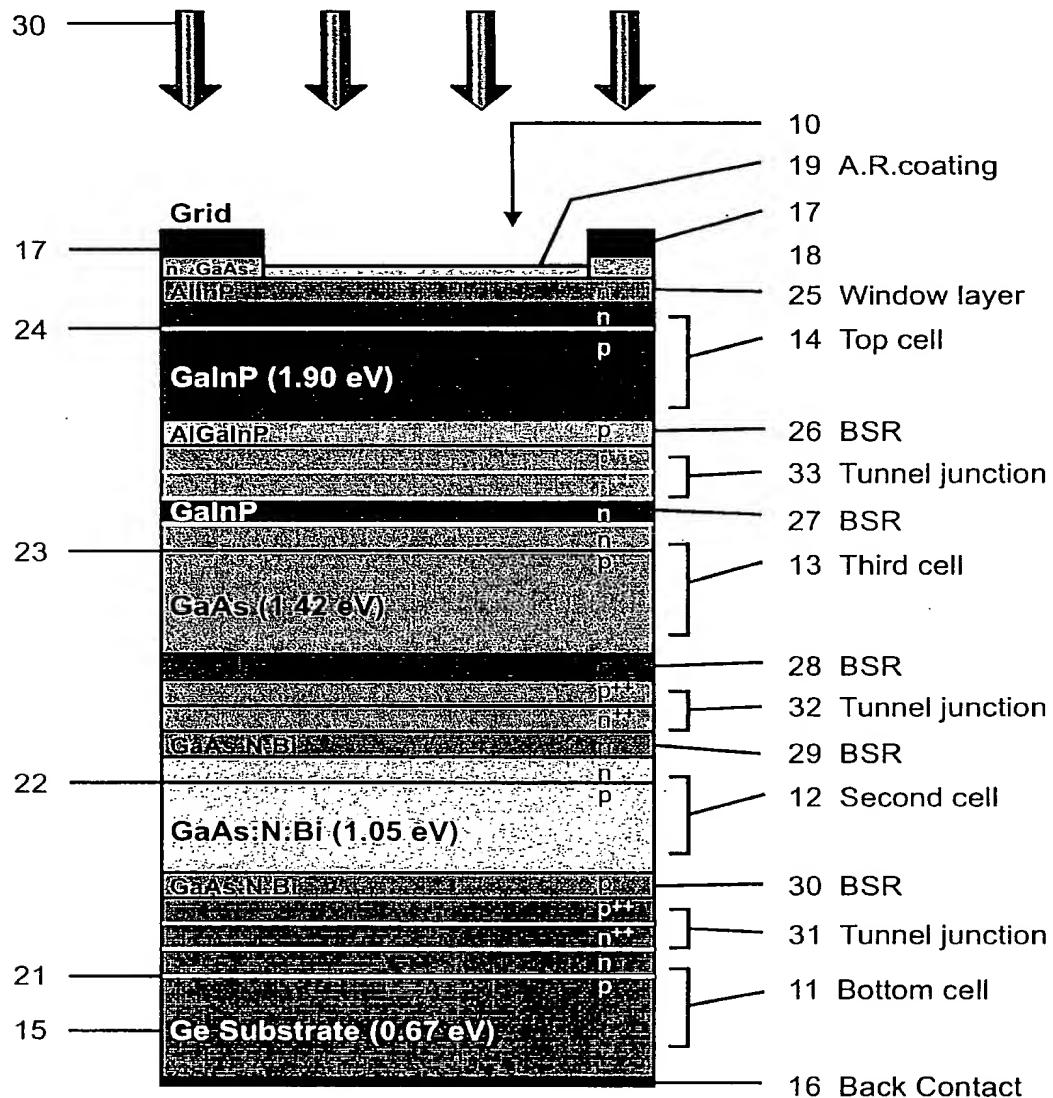
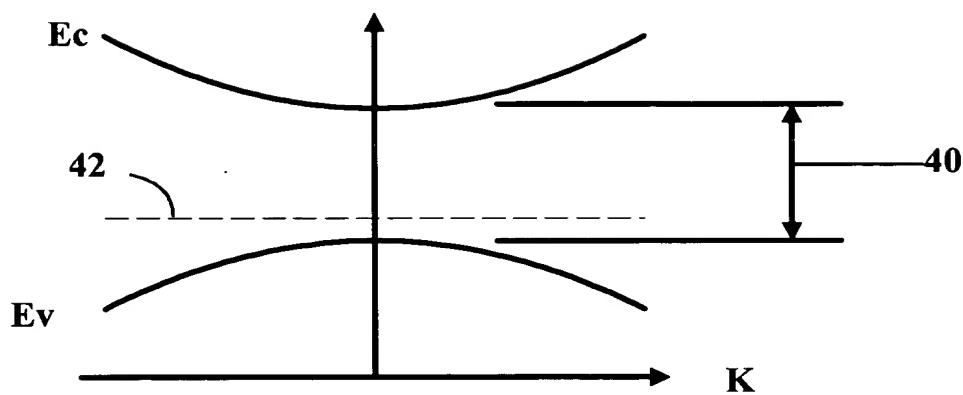
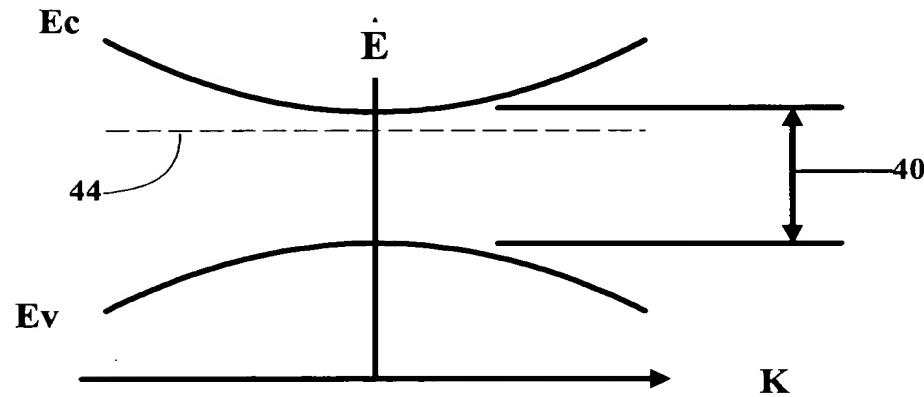
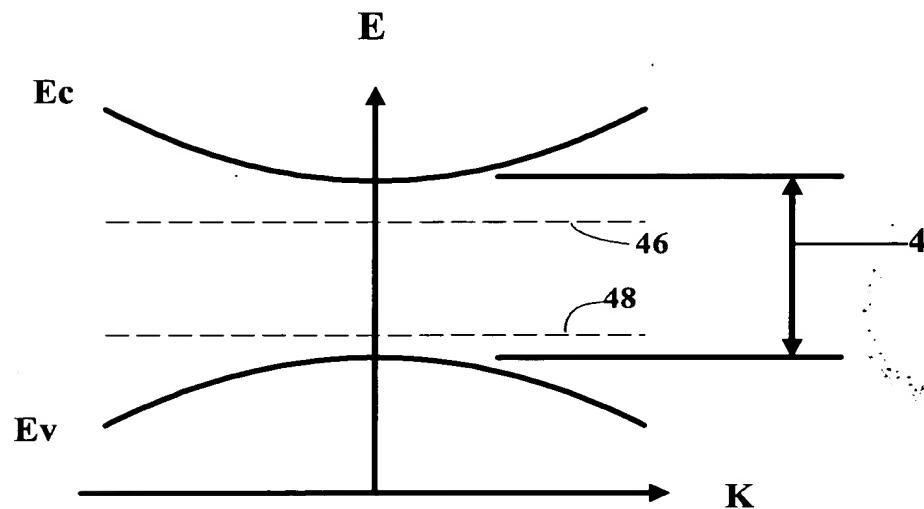


FIG. 1

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**Figure 2 (Prior Art)****Figure 3 (Prior Art)****Figure 4**

Ultimate Solar Cells

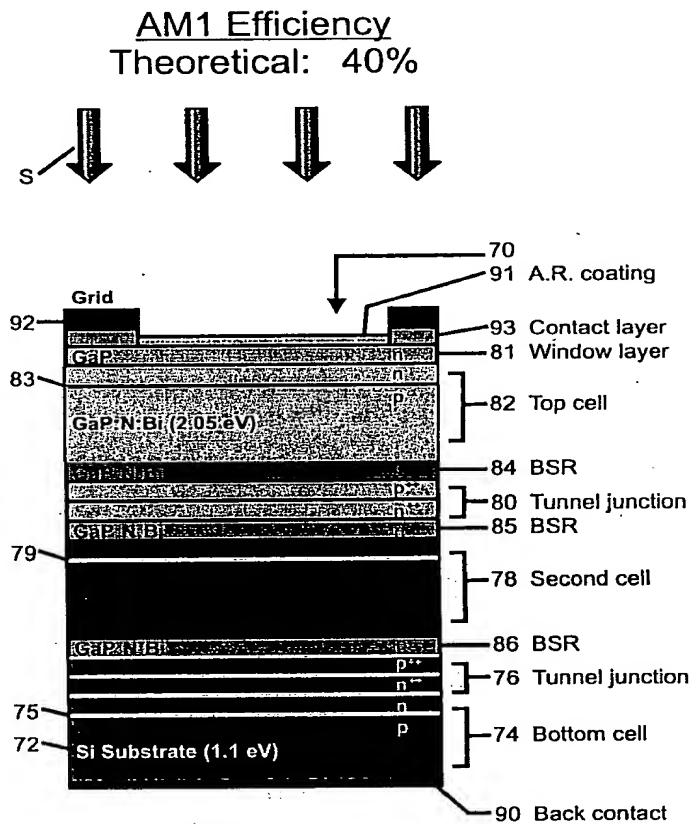
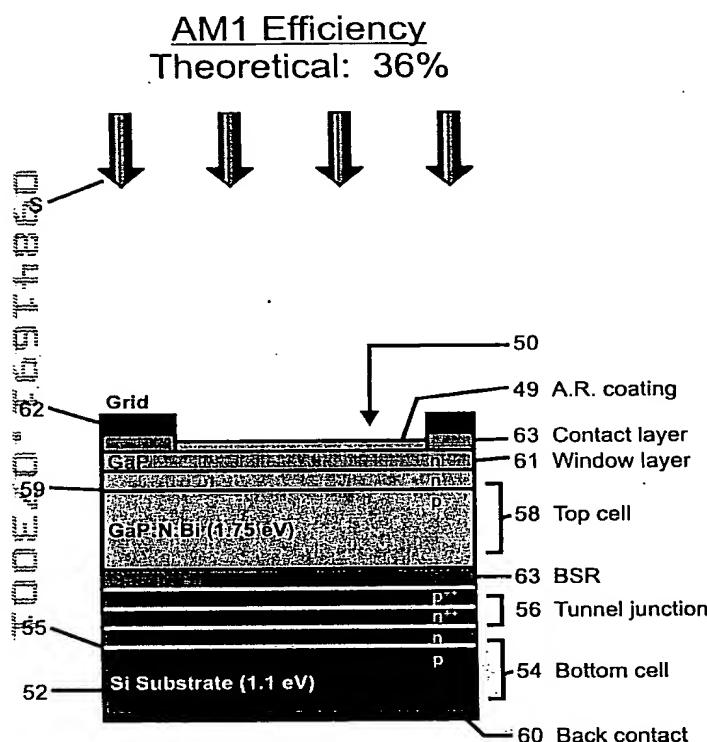


FIG. 5

FIG. 6

GaAs-based Edge-Emitting Lasers

1.55 or 1.3 μ m wavelength

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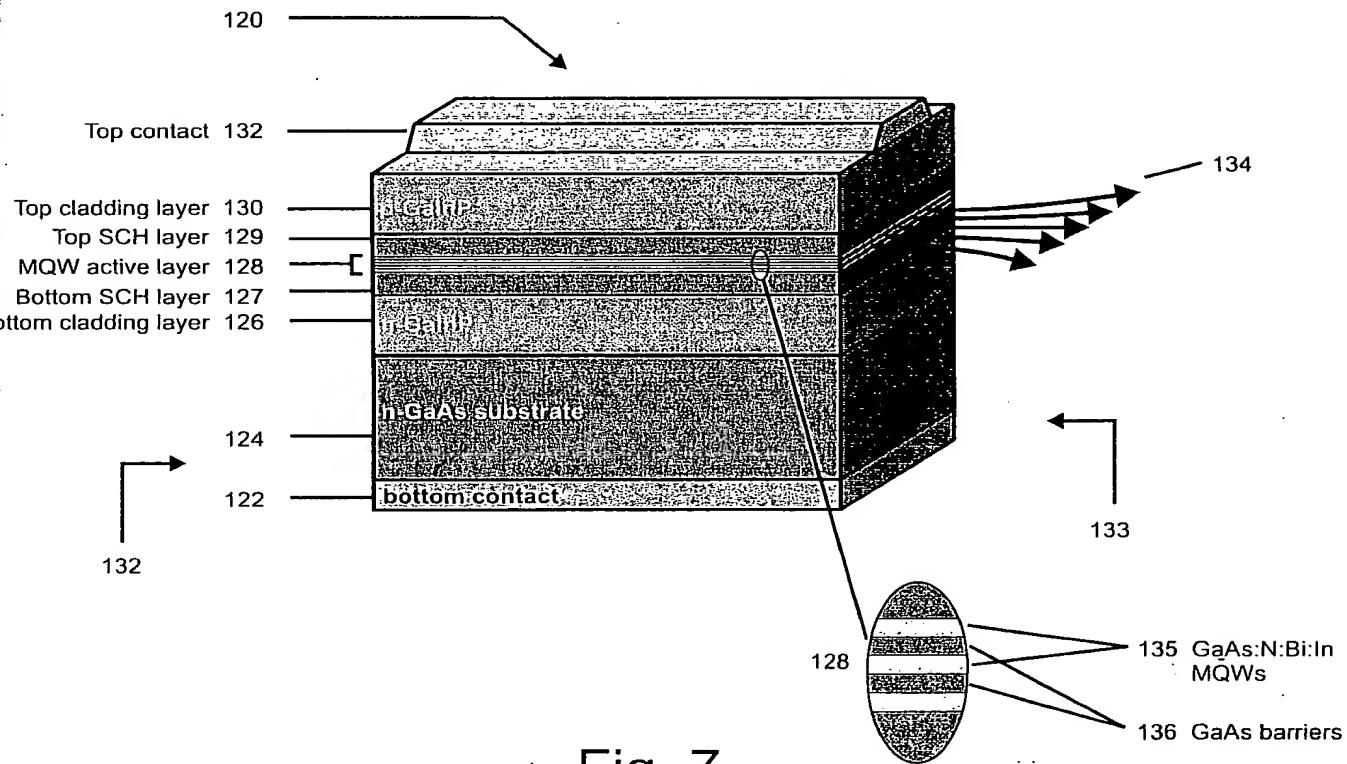


Fig. 7

VCSEL

Lasers for 1.3 or 1.55 μm

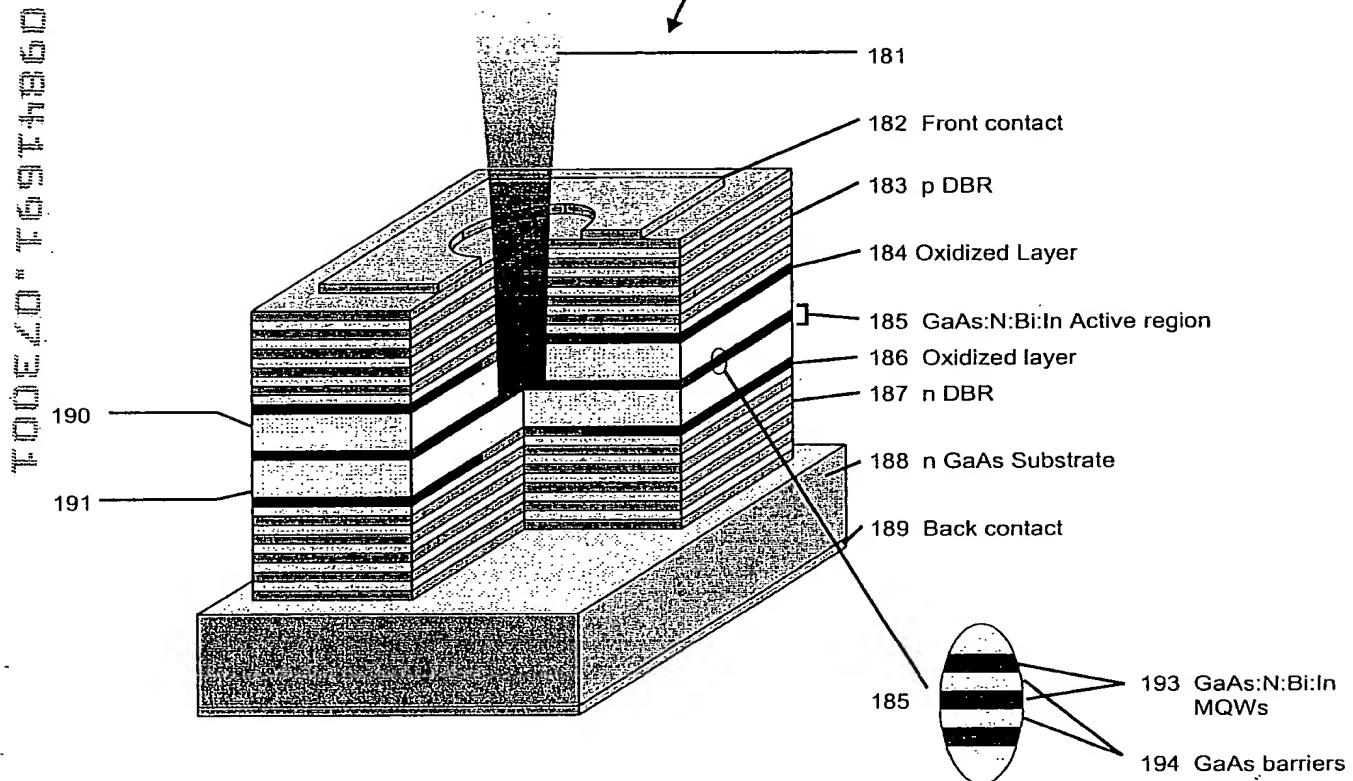


Fig. 8

High Brightness LEDs

Red / NIR LEDs: 640-800 nm

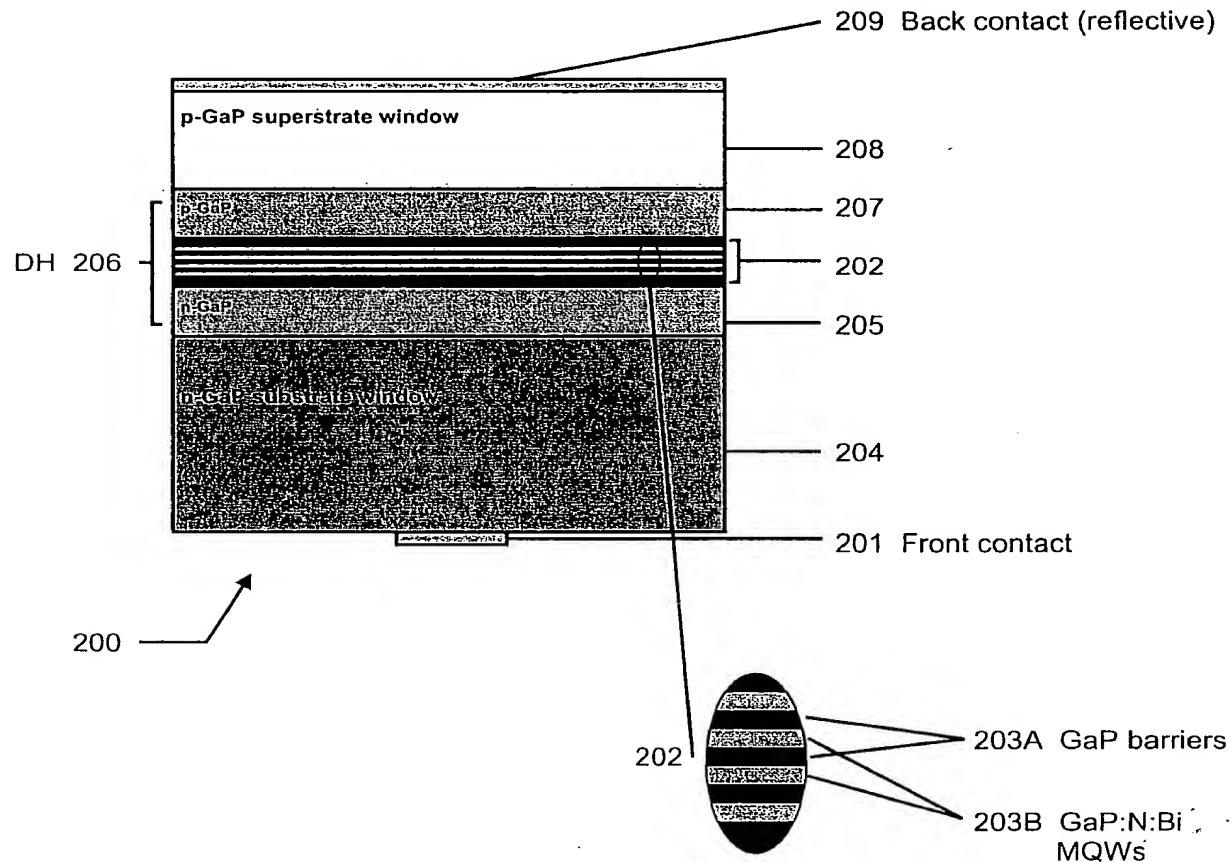


Fig. 9

Silicon monolithic LEDs

Red / NIR LEDs: 640-800 nm

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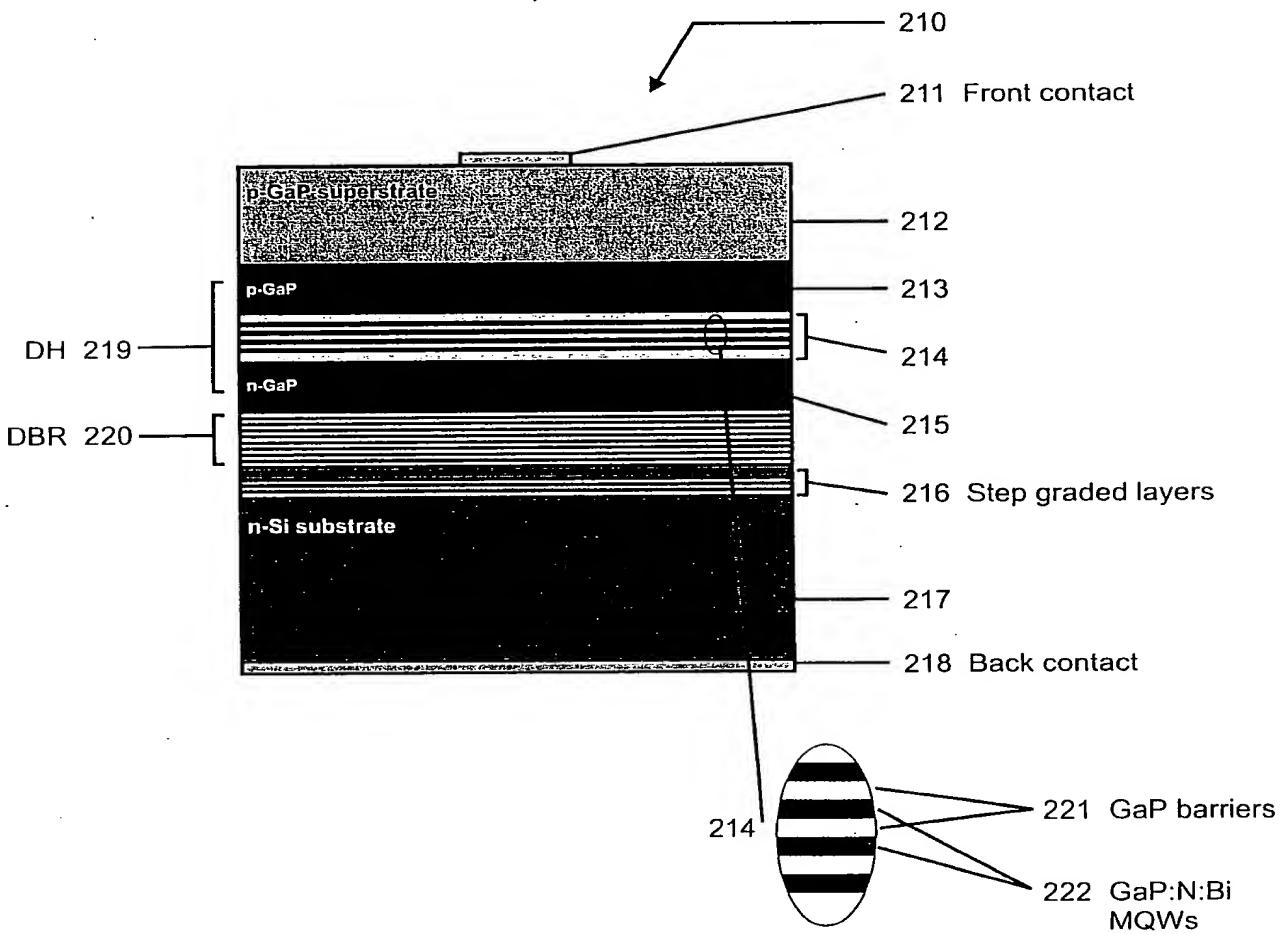


Fig. 10

GaP based Edge-Emitting Lasers

640 - 800 nm wavelength

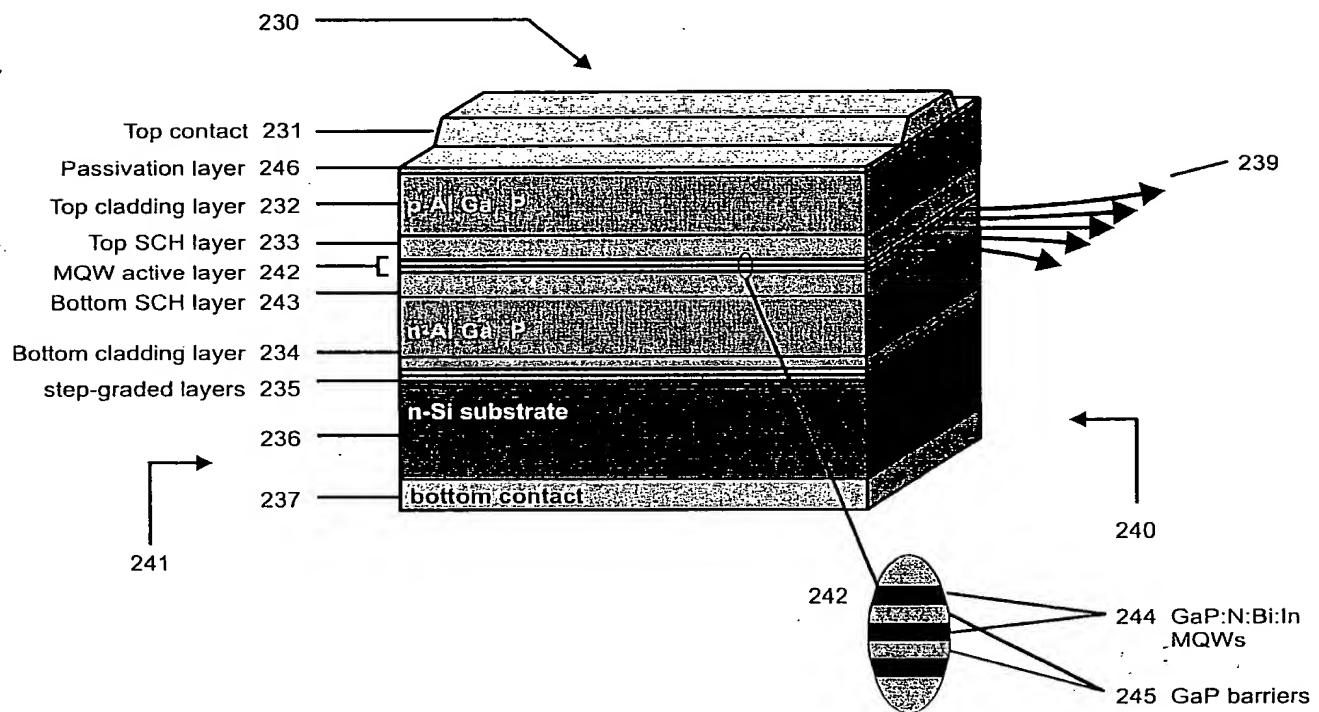


Fig. 11

Thermo Photovoltaic Solar Cell

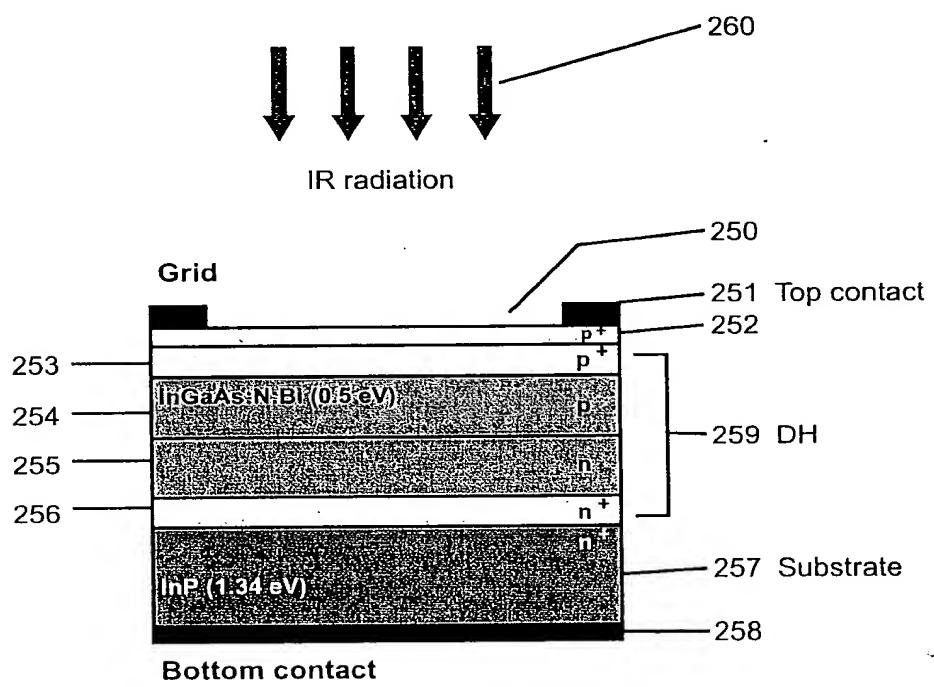


Fig. 12

Photodetectors

for 1.3 or 1.55 μm wavelengths

Light signals

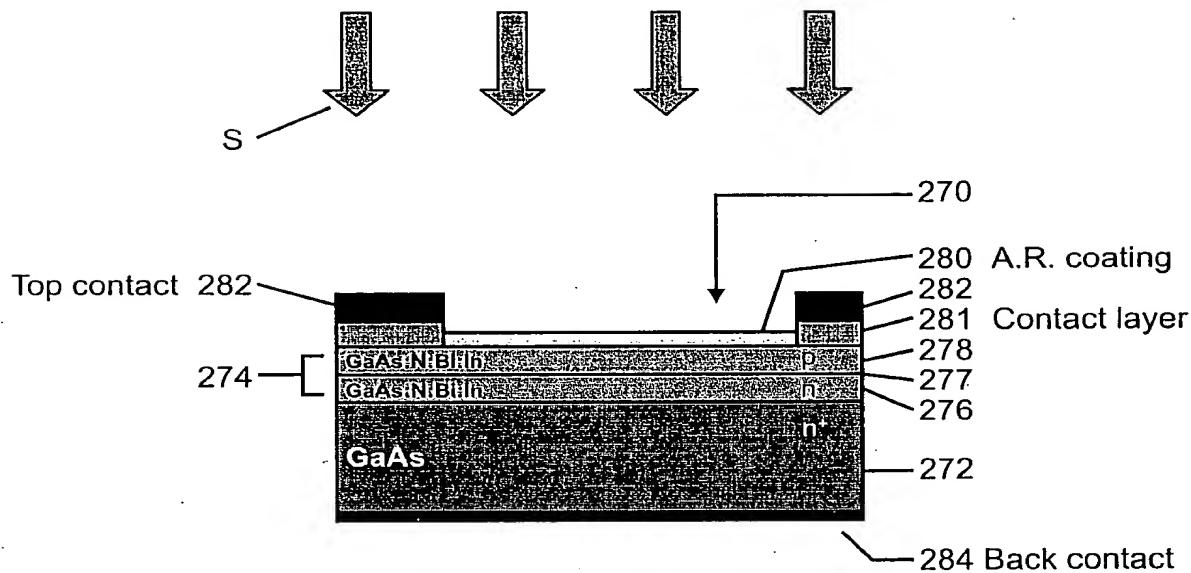


Fig. 13